

Airstream
Modular
Nitrogen Generator
Product Catalogue



www.airstreamsa.co.za

Innovative Compressed Air Solutions

Advantages of a Nitrogen Generator

- Produces high-purity nitrogen gas from compressed air (purity to 99.999% due to the modular design).
- Creates the most appropriate solution to any capacity of nitrogen gas which is required.
- Simply adjust the system by varying the number of PSA modules.
- The modular design decreases energy costs due to ideal capacity utilization.
- The modular design offers a compact construction, ideal for container installations.
 - Inlet air pressure: 7.5bar
 - Nitrogen outlet pressure: 6.5bar
 - Inlet air pressure: 10 bar
 - Nitrogen outlet pressure: 8 bar
 - Inlet air pressure: 11.5 bar
 - Nitrogen outlet pressure: 10.5 bar

What is PSA technology?

Nitrogen generators are made from columns filled with a material called CMS (Carbon Molecular Sieve). Under pressure, these columns will hold on to all materials except for argon and similar noble gases. These molecules such as oxygen, carbon dioxide and water will temporarily bind to the molecular sieve and will be released after pressure is lifted. This process is called Pressure Swing Adsorption.

Nitrogen generators provide on-site solutions for sectors which require high purity nitrogen, such as pharmaceutical, food, medicine, packaging, aviation, laser cutting, electronics, petrochemicals, plastic injection, cooling, chemical, paint-coating and cosmetics. It alleviates logistical problems which come from transporting nitrogen in cylinders or in its liquid form.

Technical Information

Airstream Modular Nitrogen Generator Technical Information

MODEL	Weight (kg)	Dimensions L x W x H (mm)	Particle Content (μm)	Inlet Air Pressure (BARg)	N2 Output Pressure (BARg)	Power
NITRO102	306	480 x 725 x 1740	0.01	7.5 to 11.5	6 to 10.5	220-240VAC/60Hz
NITRO104	457	480 x 950 x 1740	0.01	7.5 to 11.5	6 to 10.5	220-240VAC/60Hz
NITRO106	609	480 x 1175 x 1740	0.01	7.5 to 11.5	6 to 10.5	220-240VAC/60Hz
NITRO108	760	480 x 1400 x 1740	0.01	7.5 to 11.5	6 to 10.5	110-240VAC/60Hz
NITRO110	912	480 x 1625 x 1740	0.01	7.5 to 11.5	6 to 10.5	110-240VAC/60Hz
NITRO112	1063	480 x 1850 x 1740	0.01	7.5 to 11.5	6 to 10.5	110-240VAC/60Hz
NITRO114	1214	480 x 2075 x 1740	0.01	7.5 to 11.5	6 to 10.5	110-240VAC/60Hz
NITRO116	1365	480 x 2300 x 1740	0.01	7.5 to 11.5	6 to 10.5	110-240VAC/60Hz

Minimum Nitrogen Output Flow with Compressed Air Inlet Pressure of 7.5 BAR (g)

Pin=7.5bar (g)	N2 Flow Nm^3/h N2 Output = 7.5 bar (g)						
MODEL/PURITY	97%	98%	99%	99.50%	99.90%	99.99%	99.999%
NITRO102	15.9	14	11.5	10	6	3.5	3.2
NITRO104	31.8	28	23	20	12	7	6.4
NITRO106	47.7	42	33.5	30	18	10.5	9.6
NITRO108	63.6	56	45	40	24	14	12.8
NITRO110	79.5	70	55.5	50	30	17.5	16
NITRO112	95.4	84	67	60	36	21	19.2
NITRO114	111.3	98	72.5	70	42	24.5	22.4
NITRO116	127.2	112	90	80	48	28	25.6

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CORRECTION FACTORS						
* Pressure inlet bar (psi) for 7.5 bar(g) inlet						
Compressed air inlet pressure	6.5	7.5	8.5	9.5	10.5	11.5
Performance Percentage	0.84	1	1.08	1.16	1.25	1.3

* Compressed air inlet temperature in °C									
5	10	15	20	25	30	35	40	45	50
0.85	1.03	1.02	1	0.93	0.86	0.8	0.72	0.6	0.52

Reference Conditions:
* Ambient temperature working range: +5 / +40°C (41°F/104°F)
* Minimum air inlet pressure: 6.5 bar (g) (94.3psi)
* Maximum air inlet pressure: 11.5 bar (g) (181.3psi)
* Please check correction factors
Compressed air inlet quality: ISO8573-1
1. Quality = 1-2-1 or
2. Quality = 1-4-1
* Electrical power supply: 115 / 230V, 50Hz

Installation Pictogram



sales@airstreamsa.co.za
info@airstreamsa.co.za
Durban - 031 700 6501
Gauteng - 011 392 1965
Cape Town - 021 939 6046
PE - 069 897 8161

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